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Application : 09/812084	**Examiner :** Horlick	**GAU :** 1637	
From: J. Black	**Location:** (IDC) FMF FDC	**Date:** 4/26/05	

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[RUSH] **MESSAGE:**
Original claim 60 contains multiple dependencies.

Please resolve.

[XRUSH] **RESPONSE:**
Corrected.

INITIALS: JBH

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any one of

60. (Currently amended) A method according to claims 53 ~~and 56~~-59 further comprising physically generating at least one member of said set of optimized protein sequences and experimentally testing said sequence for a desired function.

61. (Previously presented) A method according to claim 30, 31, or 53 wherein said analyzing step comprises a DEE computation.

62. (Previously presented) A method according to claim 56 wherein said analyzing step further comprises a DEE computation.

63. (Previously presented) A method according to claim 56 wherein said set of optimized protein sequences comprises the globally optimal protein sequence.

64. (Currently amended) A method according to claim 61 ~~or 62~~ wherein said DEE computation is selected from the group consisting of original DEE and Goldstein DEE.

65. (Previously presented) A method according to claim 30, 31, or 53 wherein said analyzing step includes the use of at least one scoring function.

66. (Currently amended) A method according to claim 56 ~~or 65~~ wherein said scoring function is selected from the group consisting of a van der Waals potential scoring function, a hydrogen bond potential scoring function, an atomic solvation scoring function, an electrostatic scoring function and a secondary structure propensity scoring function.

67. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least two scoring functions.

68. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least three scoring functions.

69. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least four scoring functions.

70. (Previously presented) A method according to claim 66 wherein said scoring function is an atomic solvation scoring function.

71. (Previously presented) A method according to claim 70 wherein said atomic solvation scoring function includes a scaling factor that compensates for over-counting.

72. (Previously presented) A method according to claim 30, 31, 53, or 56 further comprising experimentally testing at least one member of said set.

73. (Previously presented) A method according to claim 63 further comprising the step of:

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